ADMINISTRATIVE INFORMATION

AUG 0 6 2002

I. 510(k) SUMMARY OF SAFETY AND EFFECTIVENESS

A. Submitted By:

ADAC Laboratories

540 Alder Drive

Milpitas, California 95035

Tel:

(408) 468-3051

Fax:

(408) 468-3050

Contact Person:

Coleen Coleman

At address above

B. Device Trade Name:

Quantitative Blood Pool SPECT (QBS)

Common Name:

Nuclear Medicine Software Application

Classification Name:

Image Processing System

(Computer)

C. Predicate Device(s):

Manufacturer

Product Name

510(k) No.

K003264

ELGEMS Ltd.

QPS/BPGS/MoCo Processing

TM

Applications for eNTEGRA™

Workstation

D. Device Description:

Quantitative Blood Pool SPECT (QBS) is a standalone software application for the display and analysis of gated short axis blood pool (red blood cells, RBC) SPECT datasets. The results provided by QBS should be reviewed by qualified healthcare professionals (e.g., radiologists, cardiologists, or general nuclear medicine physicians) trained in the use of medical imaging devices. QBS provides the following functionality:

- Automatic generation of left and right ventricular endocardial surfaces and valve planes from three-dimensional (3D) gated short axis blood pool images.
- Automatic calculation of left and right ventricular volumes and ejection fractions.
- Two-dimensional (2D) image display using standard American College of Cardiology (ACC) cardiac SPECT conventions.

- 3D image display. Ability to combine isosurfaces extracted from the data with the calculated endocardial surfaces in various ways (endocardial borders displayed as wireframes, shaded surfaces or both).
- Ability to support manual identification of the left-ventricular (LV) region, to separate it from the right ventricle (RV) in cases where the automatic algorithm fails or returns unsatisfactory results.
- Ability to rotate, zoom and cine surfaces.
- Calculation and display of polar maps representing wall motion.

E. Indications for Use:

Quantitative Blood Pool SPECT (QBS) is a standalone software application for the display and analysis of gated short axis blood pool (red blood cells, RBC) SPECT datasets. The results provided by QBS should be reviewed by qualified healthcare professionals (e.g., radiologists, cardiologists, or general nuclear medicine physicians) trained in the use of medical imaging devices.

F. Technological Comparison:

The Quantitative Blood Pool SPECT (QBS) and the QPS/BPGS/MoCo Processing Applications for eNTEGRA Workstation (K003264) have similar indications for use and overall function and perform in a similar manner with respect to data display and analysis.

II. CONCLUSIONS

QBS is substantially equivalent to BPGS contained in the ELGEMS Ltd. QPS/BPGS/MoCo Processing Applications (K003264) previously cleared by FDA. QBSTM and BPGS (K003264) have the same indications for use and overall function and perform in a similar manner with respect to processing and display of short axis Blood Pool Gated SPECT imaging.

BPGS software application contained in the predicate device (K003264) is similar to the ADAC Quantitative Blood Pool SPECT (QBS). BPGS (K003264) and QBS both have automatic calculation of left and right ventricular volumes and ejection fractions, provide (3D) models, and have calculation and display of polar maps. QBS has similar indications for use and overall function and perform in a similar manner with respect to data display and analysis as the predicate device BPGS (K003264). Therefore, this premarket notification has demonstrated substantial equivalence as defined and understood in the Federal Food, Drug, & Cosmetic Act and its amendments.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

20.26

AUG 0 6 2002

ADAC Laboratories % Michael Kwan, Ph.D. Office Coordinator Underwriters Laboratories, Inc. 1655 Scott Boulevard SANTA CLARA CA 95050-4169 Re: K022428

Trade/Device Name: Quantitative Blood Pool SPECT (QBS)

Regulation Number: 21 CFR 892.2050
Regulation Name: Picture archiving and

communications system

Regulatory Class: II Product Code: 90 LLZ Dated: July 24, 2002 Received: July 25, 2002

Dear Dr. Kwan:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter:

8xx.1xxx	(301) 594-4591
876.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4616
884.2xxx, 3xxx, 4xxx, 5xxx, 6xxx	(301) 594-4616
892.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4654
Other	(301) 594-4692

Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html.

Sincerely yours,

Vancy C. Brogdon
Nancy C. Brogdon

Director, Division of Reproductive, Abdominal, and Radiological Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

INDICATIONS FOR USE STATEMENT

	レカココダコチ
510(k) Number (if known):	K 02242+
Device Name:	Quantitative Blood Pool SPECT (QBS)
Sponsor Name:	ADAC Laboratories
Indications for Use:	
display and analysis of gated datasets. The results provide	ECT (QBS) is a standalone software application for the short axis blood pool (red blood cells, RBC) SPECT d by QBS should be reviewed by qualified healthcare sts, cardiologists, or general nuclear medicine physicians) imaging devices.
Do Not Write Belov	v This Line – Continue on Another Page if Needed
Concurrence of CDRH, Office of Device Evaluation (ODE)	
Concurrence	
	(Division Sign-Off)
Prescription Use Over-The-Counter Use	Division of Reproductive, Abdominal and Radiological Devices 510(k) Number 4022428